

Amendments to the Specification

Replace the paragraphs on page 12, lines 18 –20, with the following amended paragraph:

~~The single drawing figure Fig. 1~~ is a schematic illustration of an exemplary embodiment for the method according to the invention for blind modulation detection; and

Fig. 2 is a diagram showing a transmitter and a receiver with the functional units according to the invention.

Replace the paragraph from page 12, line 23, to page 13, line 5, with the following, amended paragraph:

Referring now to the ~~sole figure~~ figures of the drawing in detail, there is shown in Fig. 1 a flowchart for blind modulation detection in a receiver. A received training sequence $\tilde{\chi}_k$ is used to produce two samples, which are fed into two data paths corresponding to the two modulation types. In the figure, $\tilde{\chi}_k$ ($k = 1, 2, \dots, N$) denotes the received training sequence. N denotes the length of the training sequence and t_k ($k = 1, 2, \dots, N$) denotes the original training sequence, which is stored in the receiver.

Insert the following paragraph after the last paragraph on page 14:

Referring now to Fig. 2, the transmitter according to the invention includes a phase rotation unit and an antenna. The receiver includes means for derotating, means for forming a correlation function, means for forming a summation, means for storing, and means for determining a maximum.

Amendments to the Drawing

The original drawing has been marked "FIG. 1" and the sheet has been numbered "1/2."

FIG. 2 has been added on a new sheet.